Name: _____ Date: _____

Right Triangle Trigonometry
Alternative Assessment

Step 1: Watch the following video on the link below and answer the following question.

http://www.bing.com/videos/search?q=right+triangle+trigonometry+video&FORM=HDRSC3#view=detail&mid=458AA530EC4C896C8F86458AA530EC4C896C8F86

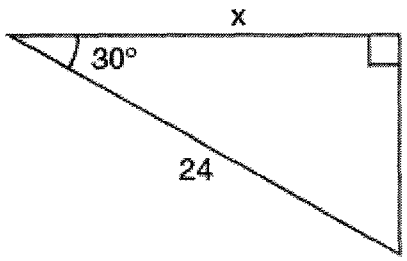
1. Fill in the following with the words adjacent, hypotenuse, and opposite.

$\sin \vartheta =$ ____ $\cos \vartheta =$ ____ $\tan \vartheta =$ ____

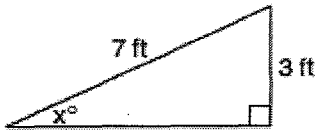
Step 2: Watch the following video on the link below and answer the following questions. Show all work.

http://www.bing.com/videos/search?q=right+triangle+trigonometry+finding+sides+and+angles&FORM=HDRSC3#view=detail&mid=05AA1007CDA79DD2CED405AA1007CDA79DD2CED4

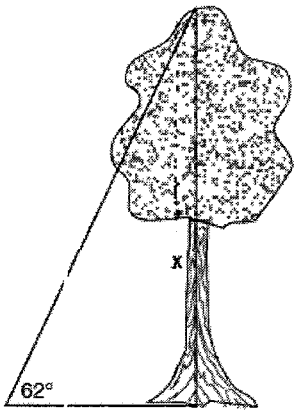
2. In the right triangle shown in the diagram below, what is the value of x to the *nearest whole number*?



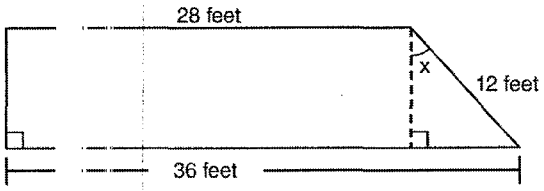
3. Ron and Francine are building a ramp for performing skateboard stunts, as shown in the accompanying diagram. The ramp is 7 feet long and 3 feet high. What is the measure of the angle, x, that the ramp makes with the ground, to the *nearest tenth of a degree?*



4. Find, to the *nearest tenth of a foot*, the h ght of the tree represented in the accompanying diagram.



5. A trapezoid is shown below.



Calculate the measure of angle x, to ıe *nearest tenth of a degree*.

	3	2	1
Trig Ratios	Student completes the ratios for sine, cosine, and tangent correctly.	Student makes one error in completing the sine, cosine, and tangent ratios.	Student makes more than one error in completing the sine, cosine, and tangent ratios.
Example 2	Student has a complete understanding on how to find a side using trig ratios. Appropriate work is shown.	Student makes one error in finding a missing side using trig ratios. Or Student has a complete understanding on how to find a side using trig ratios but does not show appropriate work.	Student does not have a clear understanding on how to find a side using trig ratios; more than one error was made.
Example 3	Student has a complete understanding on how to find an angle using trig ratios. Appropriate work is shown.	Student makes one error in finding a missing angle using trig ratios. Or Student has a complete understanding on how to find an angle using trig ratios but does not show appropriate work.	Student does not have a clear understanding on how to find an angle using trig ratios; more than one error was made.
Example 4	Student has a complete understanding on how to find a side using trig ratios. Appropriate work is shown.	Student makes one error in finding a missing side using trig ratios. Or Student has a complete understanding on how to find a side using trig ratios but does not show appropriate work.	Student does not have a clear understanding on how to find a side using trig ratios; more than one error was made.
Example 5	Student has a complete understanding on how to find an angle using trig ratios. Appropriate work is shown.	Student makes one error in finding a missing angle using trig ratios. Or Student has a complete understanding on how to find an angle using trig ratios but does not show appropriate work.	Student does not have a clear understanding on how to find an angle using trig ratios; more than one error was made.